

Patent Claims:

1.-14. Canceled

15. (New) A method for adjusting an electromagnetically controllable actuator designed to control the flow of a fluid, the actuator comprising an electromagnetic arrangement that can be driven by means of an exciter coil (9) including at least one movable armature (6), and with the electromagnetic arrangement acting mechanically on a valve actuating device for opening and closing the actuator, the valve actuating device comprising at least one closing element (5), a resetting element (27) for opening or closing the closing element when the exciter coil is not excited, and a valve seat (4) into which the closing element for opening or closing the actuator engages, the method comprising the steps of

measuring at least one electromagnetic property of the actuator,
selecting a measured quantity correlating with the electromagnetic property as an actual value for controlling a correcting variable, and
adjusting the electromagnetic property by directly taking this correcting variable into account.

16. (New) The method as claimed in claim 15,

wherein the electromagnetic property is at least one of the properties out of the group consisting of the magnetic resistance R_M of the electromechanical arrangement, the inductance L of the electromechanical arrangement, the electrically measured magnetic force F_{magn} acting on the valve actuating device, the holding current I_{hold} necessary for opening or closing, and the opening current I_{open} of the actuator necessary for opening or closing.

17. (New) The method as claimed in claim 15,

wherein the electromagnetic property is adjusted by the controller when the actuator is completely closed.

18. (New) The method as claimed in claim 15,

wherein the electromagnetic property, is adjusted by mechanical adjustment of the armature stroke when the actuator is completely opened. and/or

an air slot in the magnetic arrangement when the actuator is completely opened.

19. (New) The method as claimed in claim 15,
wherein the electromagnetic property is adjusted by mechanical adjustment of an air slot in the magnetic arrangement when the actuator is completely opened.
20. (New) The method as claimed in claim 15, including the step of applying a current variation at a coil in the electromagnetic arrangement, wherein an induced voltage is the electromagnetic property.
21. (New) The method as claimed in claim 20,
wherein the coil is the exciter coil, wherein the current variation includes continuously changing a nominal value of the exciting current according to a predetermined pattern and determined from at least one of the following values:
a temporal actual value of the exciting current, the induced voltage of the valve opening current, and the induced voltage of the valve holding current; and
wherein the induced voltage is measured at at least one of the two following coils: the exciter coil and a measuring coil in the electromagnetic arrangement.
22. (New) The method as claimed in claim 21,
wherein the current pattern corresponds to a saw-tooth-shaped course.
23. (New) The method as claimed in claim 15,
wherein the adjustment is a mechanical adjustment being performed during the manufacturing process of the valve.
24. (New) The method as claimed in claim 15,
wherein initially the adjustment is performed outside an object (1, 2) and, after the installation of the actuator into the object, an adjustment is performed inside the object in which the actuator is used, said adjustment being likewise based on the measurement of electromechanical properties.
25. (New) The method as claimed in claim 24,

wherein the adjustment outside the object is focused on compensating the influence of tolerances on the opening current characteristics, which are especially based on a different force/travel variation of the resetting elements.

26. (New) An adjustment device for mechanically adjusting an electromagnetically controllable actuator, comprising an electromagnetic exciter coil (6) which is a component part of the adjustment device and an accommodation which allows inserting an actuator that is electromagnetically drivable by the exciter coil,

wherein the adjustment device comprises a control circuit with an input quantity being an electromagnetic property of the actuator that can be mounted into the adjustment device, wherein the control circuit determines a correcting variable which serves to adjust at least one mechanical property of the actuator.

27. (New) The adjustment device as claimed in claim 12,

wherein the correcting variable determines the position ($X, \Delta X$) of a holding device of a press arrangement.